

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A shelf stacking machine (RFZ) for storing and retrieving paper reels, ~~particularly in the printing industry,~~ which is movable in an aisle between storage positions on both sides that hold paper reels stored above one another and spaced apart in the longitudinal direction of the aisle, and has a receptacle for a paper reel, characterized in that the receptacle (1) is formed by a fork (1) that is vertically pivotable around a horizontal axis (6) and incorporates measuring devices (7) that detect the carrying load of ~~the~~ a picked-up paper reel (P), said receptacle further comprising an actuator (8) to which ~~transmit the detected measuring data~~ are transmitted via a control means, ~~to an~~ said actuator (8) ~~that is being~~ coupled to ~~the~~ said fork (1) ~~movement-wise, which to~~ vertically pivots ~~the~~ pivot said fork (1) into ~~the~~ a horizontal position in accordance with the measuring data and ~~holds it~~ to hold said fork in this horizontal position during transport of the paper reel.

2. (Currently amended)) A shelf stacking machine according to claim 1, characterized in that said fork is composed of two fork pieces (1a) and two ultrasound sensors are disposed as measuring ~~instruments~~devices (7) in at least one ~~or in each of~~ the two fork members (1a) of the fork (1).

3. (Previously presented) A shelf stacking machine according to claim 1, characterized in that the fork (1) is provided with prism shaped or circular-arc shaped receptacle sections (a, b, c) for various diameters of the paper reels (P).

4. (Currently amended) A shelf stacking machine according to claim 1, characterized in that the fork (1) is fixed on a vertical fork frame (9) that is supported with its upper end in ~~at~~the horizontal ~~pivot~~-axis (6) and actuated by the actuator (8) to pivot the fork vertically.

5. (Previously presented) A shelf stacking machine according to claim 1, characterized in that the fork (1) is suspended with a rotating ring (10) from a lift and drive unit formed by a lifting gear frame (11) and a drive frame (12).

6. (Currently amended) A shelf stacking machine according to ~~claim 1~~claim 5, characterized in that the fork frame (9) is

supported ~~with its~~ at the pivot axis (6) on a fork framework (13), that this fork framework (13) is fixed at its upper end on the rotating ring (10) and the rotating ring (10) is moveable with a moving device (14) on the drive frame (12) for storing and removing reels.

7. (Currently amended) A shelf stacking machine according to ~~claim 1~~ claim 6, characterized in that the actuator (8), which acts onto the fork frame (9) with a lifting element (8a) that can be moved to and fro, is fixed on the fork framework (13) in the height region of the fork (1).

8. (Currently amended) A shelf stacking machine according to ~~claim 1~~ claim 5, characterized in that the drive frame (12) is held on the lifting gear frame (11) at both ends and the lifting gear frame (11) is supported vertically adjustable with rollers (11a) on ~~the~~ a stand (2) of the shelf stacking machine (RFZ).

9. (Currently amended) A shelf stacking machine according to ~~claim 1~~ claim 8, characterized in that the stand (2) of the shelf stacking machine (RFZ) is formed U-shaped and ~~stands with its~~ includes two vertical posts (2a), that the stand (2) with said vertical posts stands on motor driven moving devices

(3), that ~~the~~said ~~lift~~ lifting gear frame (11) and said drive units~~frame~~ (11, 12) lie between ~~the~~said posts (2a) of ~~the~~ rearrangedsaid stand (2), and that the lifting gear frame (11) is guided with ~~it~~said rollers (11a) vertically adjustable on ~~the~~said posts (2a).

10. (Currently amended) A shelf stacking machine according to ~~elaim 1~~claim 9, characterized in that ~~the shelf stacking machine~~said stand (2) is or can be coupled to a transport vehicle (TW) that moves the shelf stacking machine (RFZ) out of the ~~operating~~ aisle (G).

11. (Currently amended) A shelf stacking machine according to ~~elaim 1~~claim 10, characterized in that one horizontal axis pin (14) is disposed in each of ~~the~~said two posts (2a) of ~~the~~said shelf stacking machine stand (2), that both pins (14) are situated coaxially opposite one another and are grasped by the transport vehicle (TW) for ~~the tilting~~ (pivoting of ~~the shelf stacking machine~~said stand from ~~the~~a vertical position into an inclined position[[]]).

12. (Currently amended) A shelf stacking machine according to ~~elaim 1~~claim 10, characterized in that the shelf stacking machine (RFZ) is movable on a drive rail, the transport

vehicle (TW) ~~is designed portal-like and incorporates~~
vertically adjustable lifting elements (15) with support
rollers (16) to raise the shelf stacking machine (RFZ) out of
~~its~~the drive rail (5) ~~in the~~on a warehouse floor or in a pit.

13. (Currently amended) A shelf stacking machine according
to ~~claim 1~~claim 12, characterized in that the lifting elements
(15) of the transport vehicle (TW) are vertically adjustable
by means of support rollers, either mechanically, electric
motor driven, or hydraulically.

14. (Currently amended) A shelf stacking machine according to
~~claim 1~~claim 12, characterized in that a cross connection (17)
is disposed between the posts (20) of the stand (2) of the
shelf stacking machine (RFZ) with a clearance channel (17a)
that is pulled down to the warehouse floor (B) for picking up
a paper reel (P) from the floor with the fork (1).

15. (Currently amended) A shelf stacking machine according to
claim 1, characterized in that the receptacle (1) is formed by
a mandrel, ~~preferably a telescoping mandrel~~.

16. (Canceled).